ΑD)		

Award Number: DAMD17-00-1-0193

TITLE: Outcomes of Screening Mammography in Elderly Women

PRINCIPAL INVESTIGATOR: Philip W. Chu

Rebecca Smith-Bindman, M.D.

CONTRACTING ORGANIZATION: University of California, San Francisco

San Francisco, California 94143-0962

REPORT DATE: April 2002

TYPE OF REPORT: Annual Summary

PREPARED FOR: U.S. Army Medical Research and Materiel Command

Fort Detrick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Approved for Public Release;

Distribution Unlimited

The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision unless so designated by other documentation.

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 074-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE		E AND DATES COVERED				
	April 2002	Annual Summary					
4. TITLE AND SUBTITLE			5. FUNDING NUMBERS				
Outcomes of Screening Mammography in Elderly Women			DAMD17-00-1-0193				
C AUTHOR/O							
6. AUTHOR(S)							
Philip W. Chu							
Rebecca Smith-Bindman, M	1. D.						
7. PERFORMING ORGANIZATION NAM	ME(S) AND ADDRESS(ES)		8 PERFORMIN	NG ORGANIZATION			
			REPORT N				
University of California	. San Francisco						
San Francisco, Californi							
Sun francisco, cultionin	u 31113 0302						
E-Mail: bill.chu@radiol	ogy ucsf edu						
E Mail. Dill.chaeladioi	ogy.ucsi.edu						
9. SPONSORING / MONITORING AGE	NCY NAME(S) AND ADDRESS(ES)	10. SPONSOR	ING / MONITORING			
		′		REPORT NUMBER			
U.S. Army Medical Resear	ch and Materiel Comma	nd					
Fort Detrick, Maryland							
11. SUPPLEMENTARY NOTES		<u></u>	NAME OF TAXABLE PARTY.				
12a. DISTRIBUTION / AVAILABILITY S	TATEMENT			12b. DISTRIBUTION CODE			
Approved for Public Rele	ase; Distribution Unl	imited					
13. ABSTRACT (Maximum 200 Words))						
TTI	There is uncertainty about whether women older than age 65 should undergo screening mammography. Although screening						
mammography may benefit some el							
	positive diagnoses and the detection of clinically insignificant lesions. This research study involves the design and implementation of a						
data analysis of HCFA Medicare billing claims linked with National tumor registry data from the Surveillance Epidemiology and End							
Results (SEER) program. The specific aims of this research will evaluate 1) differences in breast cancer mortality, 2) differences in							
breast cancer treatment and 3) difference in breast cancer tumor attributes between women who were screened and those who were not.							
In the second year of this grant the PI will focus on validating that the Medicare claims are accurate for determining screening							
mammography.							
44 OUR POT TERT							
14. SUBJECT TERMS				15. NUMBER OF PAGES			
breast cancer, screening mammography, elderly women, false policerase. Madisans			_	5			
diagnoses, Medicare				16. PRICE CODE			
17. SECURITY CLASSIFICATION 18	S. SECURITY CLASSIFICATION	19. SECURITY CLASSIFI	CATION	20. LIMITATION OF ABSTRACT			

NSN 7540-01-280-5500

Unclassified

OF REPORT

Unlimited

OF ABSTRACT

Unclassified

OF THIS PAGE

Unclassified

Table of Contents

Cover	1
SF 298	2
Table of Contents	3
Introduction	4
Body	4
Key Research Accomplishments	5
Reportable Outcomes	5
Conclusions	5

INTRODUCTION

There is uncertainty about whether women older than age 65 should undergo screening mammography. Although screening mammography may benefit some elderly women through the detection of early breast cancers, it may potentially harm other women through false positive diagnoses and the detection and surgical treatment of clinically insignificant lesions. This research study involves the design and implementation of a data analysis of HCFA Medicare billing claims linked with National tumor registry data from the Surveillance Epidemiology and End Results (SEER) program. The specific aims of this research will evaluate 1) differences in breast cancer mortality, 2) differences in breast cancer treatment (mastectomy and lumpectomy) and 3) difference in breast cancer tumor attributes (such as size and stage) between women who were screened and those who were not. Since women with co-morbidities have higher mortality rates than women without comorbidities, this project will also evaluate whether there are differences in these outcomes by whether women have co-morbidities. An important associated project is to validate that the Medicare billing claims are accurate for the determination of screening mammography, and this analysis must be completed before the primary aims described above can be analyzed. Using prospectively collected data from the San Francisco-Oakland, New Mexico, and Washington State Breast Cancer Surveillance Consortium (BCSC) registries (an NCI sponsored collaboration of mammography registries) linked with data from Medicare for the same geographical regions from 1992-1996, we will assess whether Medicare physician claims can be used to accurately distinguish screening from diagnostic mammography. If the Medicare data base can be used to determine the use of screening mammography, the linked SEER-Medicare data base will be obtained to evaluate the described outcomes of screening mammography among elderly women.

BODY

The original Statement of Work for the project was to focus on "Validating Algorithm for Determining Screening History." Our research efforts have focused on this aim, and the following goals have been achieved:

- 1) The linked Medicare HCFA/SEER database describing Medicare claims through 1998 and breast cancer cases through 1996 was obtained, and data cleaning of this complex administrative database is underway.
- 2) Developing an algorithim that will be used for determining the predictor variable of screening mammography utilization.
- 3) Data has been obtained from 3 Breast Cancer Surveillance Consortium (BCSC) Registries (New Mexico, Colorado, and San Francisco) describing the prospective interpretation of mammography examinations in 5,000 plus women >age 65 with breast cancer.
- 4) Begun linking the HFCA/SEER data with the BCSC datasets.

All of the original aims were to be analyzed by race and socio-economic factors. In addition to the previous efforts, we have begun to evaluate differences in the use of screening by race and socio-economic factors.

KEY RESEARCH ACCOMPLISHEMENTS

- Data has been obtained, from HFCA Medicare, and three Breast Cancer Consortium Registries.
- Data linking is underway between the HFCA and BCSC data sets.
- Data cleaning MEDICARE/SEER data set.

REPORTABLE OUTCOMES

None

CONCLUSIONS

Due to a transfer of name to this grant, Philip Chu just received the monies in January, 2002. Many of the goals for Year 1 of the project are being completed. The project is moving along quickly and the analyses of the remainder of the aims are expected to proceed as originally planned.